

**Amendments to the Specification:**

References to the “paragraphs” below are with respect to the originally filed patent application, which (as downloaded from the PTO PAIR database) appears to be a copy of the International Application, WO 2004/006184.

Please replace the second full paragraph at page 2 of the application with the following rewritten paragraph:

Increasing operational demands, as well as cost ~~constraints~~ ~~constrains~~ created the need for automation of event detection. Such event detection solutions provide a higher detection level, save manpower, replace other types of sensors and lower false alarm rates.

Please replace the paragraph bridging pages 7 and 8 of the application with the following rewritten paragraph:

The present invention is also directed to a system for performing event detection and object tracking in image streams, that comprises:

- a) a set of image acquisition devices, installed in field, each of which includes:
  - a.1) a local programmable processor for converting the acquired image stream, to a digital format
  - a.2) a local encoder, for generating, from the image stream, features, being parameters related to attributes of objects in the image stream, and for transmitting a feature stream, whenever the motion features exceed a corresponding threshold;
- b) a data network, to which each image acquisition device is connected through a corresponding data communication channel; and
- c); and
- c) ~~d~~) an image processing server connected to the data network, the server being capable of determining the threshold, of obtaining indications regarding events in the image streams by processing the feature stream, and of transmitting the indications to an operator.

Please replace the last paragraph on page 12 of the application with the following rewritten paragraph:

**FIG. 1** schematically illustrates the structure of a surveillance system that comprises a plurality of cameras connected to a data network, according to a preferred embodiment of the invention. The system **100** comprises it image sources (in this example, n cameras, Cam<sub>1</sub>, Cam<sub>n</sub> ~~CAM1, CAMn~~), each of which connected to a digital encoder

Encoder<sub>n</sub> ENC<sub>j</sub>, for converting the images acquired by Cam<sub>n</sub> CAM<sub>j</sub> to a compressed digital format. Each digital encoder Encoder<sub>n</sub> ENC<sub>j</sub> is connected to a digital data network **101** at point p<sub>n</sub> p<sub>j</sub> and being capable of transmitting data, which may be a reduced bandwidth feature stream or a full compressed video stream, through its corresponding channel, Channel<sub>n</sub> C<sub>j</sub>. The data network **101** collects the data transmitted from all channels and forwards them to the MCIP server **102**, through data-bus **103**. MCIP server **102** processes the data received from each channel and controls one or more cameras which transmit any combination of the reduced bandwidth feature stream and the full compressed video stream, which can be analyzed by MCIP server **102** in real time, or recorded by NVR **104** and analyzed by MCIP server **102** later. An operator station **105** is also connected to MCIP server **102**, for real time monitoring of selected full

The Abstract is attached to this Amendment, as a separate page containing only the Abstract, as required in the Office Action.